Digital Intelligent High Power AVR (Three Phase)

APR PRN three phase series

Specially for whole plant power equipment

New Generation Digital Logic Combined Functional Setting. Complete Capacity and Specifications, CE Certified. The Series is designed of built-in multiple functions digital meters, in conjunction of indicators. The equipment is easy in operation. Joining with a number of patents and anti-mistake engineering design. The producing procedure meet international standard, with high quality and long MTBF, the serial equipment are good for all kinds load and sites.

Features:

- Microprocessor Control Unit (MCU) controlled regulatio
- Multi-Phase, Multi-Function and Real-time measuring system Single-Chip (EMP)
- Built-in patented bypass device for equipment protection
- Big range high / low voltage protection device
- Phase loss, instant black-out and short circuit protection device
- Solid-state zero point transform drive circuit
- Start Over Voltage Protection (SOVP)
- Independent regulation and protection design
- Built-in digital voltmeter on internal panel for monitoring voltage, frequency and other electricity information
- Signals of the AVR is totally in True RMS treatment
- Internally and externally built multi-function state indicators
- New type 4-digit safety password setting functions
- Electronic double circuitry switch design
- Full series with the same control system and multi anti-mistake circuit design
- Separate voltage regulation design, 3 phases imbalance 100%
- Taiwan patent no. 160215 and 162577
- China patent no. 125595 & 390066
- Double overload and Short circuit protection

※ Scope of Application:

PCB Drilling Machine

Integrated Processing Machine

SMT

EDM

Milling Machine

AI component Inserting Machine

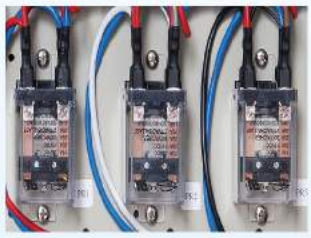
Digital Display

Digitally display the functions of voltage and frequency of all phases

Easy and Precise Setting

Press button setting of voltage and frequency of all phases. Functions are complete and operations are easy

SOVP Device



Whether it is switched on or recover from power outage, the Start Over Voltage Protection will always re-start from low voltage, won't have high voltage output

Multi-Function State Display

All states of various power are displayed in indicator allowing for determine the condition of the AVR clearly

Noise Preventing Device

The AVR is installed in extra arc suppressor and noise interference prevention devices

Separated Regulation

Three phase separate regulators design for attaining precise output

I/P & O/P Wires Protection

Wiring fixed, input/ output wires well sealed, stable & safety

Bypass Device

It allows for bypassing at of protection and maintenance. And when bypassed, the protection functions is still working

H Class Protection

With Class H insulation materials transformer

Model & Specification:

Model No.	APR-	3120 X/N	3150 X/N	3200 X/N	3250 X/N	3300 X/N	3400 X/N	3500 X/N	3600 X/N	3750 X/N	31000 X/N
	Capacity (KVA)	120	150	200	250	300	400	500	600	750	1000
	PRN-	3150 X/N	3200 X/N	3250 X/N	3300 X/N	3400 X/N	3500 X/N	3600 X/N	3750 X/N	31000 X/N	31200 X/N	31500 X/N
	Capacity (KVA)	150	200	250	300	400	500	600	750	1000	1200	1500

Voltage	X2：I/P：3 ϕ 3W 198V ～ 242V	O/P：3 ϕ 3W 220V ±1%
	X3：I/P：3 ϕ 3W 342V ～ 418V	O/P：3 ϕ 3W 380V ±1%
	N1：I/P：3 ϕ 4W 99/171V ～ 121/209V	O/P：3 ϕ 4W 110/190V ±1%
	N2：I/P：3 ϕ 4W 198/342V ～ 242/418V	O/P：3 ϕ 4W 220/380V ±1%
Main Structure	Digital logic linear voltage regulation mode	
Voltage Regulating Signals	True RMS (Precision of voltage regulation is not affected by waveform distortion)	
Power Factor	0.95～1	
Efficiency	≧98%	
Response time	<0.1 Second	
Waveform Distortion	No distortion	
Protection — High Voltage	Standard feature (any high voltage tripping point value is set digitally)	
Protection — Low Voltage	Standard feature (any low voltage tripping point value is set digitally)	
Protection — Phase Loss	Standard feature (any phase loss tripping point value is set digitally)	
Bypass	Standard feature (with High / Low Voltage, Phase Loss, Instant Trip Protection at work)	
Indicators — Power	Standard feature	
Indicators — Voltage	Standard feature (three phase voltage is equipped with digital meter display)	
Indicators — Abnormal	Standard feature	
Safety Protection	4-digit safety password setting	
Overload	150% for 10 seconds	
Environment	Temperature:0℃～45℃ Humidity:0%～95% RH (Non-Condensing)	